



Air Quality Classroom Resources

Compiled by DES Air Resources Division

Curriculum Guides, Lessons & Activities

Air Pollution: What's the Solution? Explore ground-level ozone pollution through interactive online teaching unit for Grades 6-9 (www.k12science.org/curriculum/airproj/)

AIRNOW Teachers' Air Quality Resources (<http://airnow.gov/index.cfm?action=static.resource>)

Air Quality Education Program, Delaware Department of Natural Resources and Environmental Control – Air Quality Management Section (2000)
(www.dnrec.state.de.us/DNREC2000/Divisions/AWM/aqm/education/educationprogram.htm)

Biodiesel Curriculum Guide, Grades 4-12
(www.biodiesel.org/pdf_files/Biodiesel_Curriculum_Schools.pdf)

Climate Change – What You Can Do, EPA's School Resource Page for Students, Educators, and Administrators, (www.epa.gov/climatechange/wycd/school.html)

Clean Air Lesson Plans, Grades 4-8 – Georgia's Clean Air Campaign
(www.cleanaircampaign.com/for_schools/clean_air_lesson_plans/)

Cleaner Cars Module (<http://nsc.org/ehc/mobile/intro.html>)
An initiative to encourage responsible car maintenance and driving habits among future drivers; National Safety Council, 1025 Connecticut Avenue NW, Ste 1200, Washington DC 20036 (202)293-2270

Easy Breathers (www.easybreathers.org)
Wisconsin Department of Natural Resources-project funded in part by US EPA, Wisconsin Department of Transportation, and Midwest Express Airlines

Energy Star – Educate Students (www.energystar.gov/index.cfm?c=change_light.changealight_educate)

Environmental Organization Web Directory (www.webdirectory.com)

Extraordinary Road Trip. Eco-driving tips and understanding the issues. (www.extraordinaryroadtrip.org/)

Northeast Sustainable Energy Association with funding from the US Department of Energy.
Leading the Way to Sustainable Transportation; NESEA, 50 Miles Street, Suite 3, Greenfield, MA 01301
Educational Resource Guides for K-12 Teachers, "Cars of Tomorrow and the American Community" (<http://nesea.org/education/edmaterials/index.html>); "Getting Around Clean and Green;" "Future Wheels for a Sustainable America" (<http://nesea.org/education/links.html>); and "Getting Around Without Gasoline" (www.nesea.org/education/edmaterials/GAWG.html)

In the Air, Tools for Learning About Airborne Toxics Across the Curriculum. Missouri Botanical Gardens' EarthWays Center & EPA. { www.intheair.org }

Indoor Air Quality "Tools for Schools" (www.epa.gov/iaq/schools/teachers.html)

Energy Education and Training, US Dept. of Energy, Energy Efficiency & Renewable Energy
(www1.eere.energy.gov/education/)

National Energy Foundation's Energy Education Links. (www.nef1.org/educators.html)

National Renewable Energy Laboratory education programs (www.nrel.gov/education/)

Planet Polluto. Interactive activity for elementary students. (www.planetpolluto.com/)

Project A.I.R.E. EPA Region 1 Student & Teacher air resources webpage
(www.epa.gov/region01/students/teacher/aire.html)

Videos

EPA Region 1 Video Lending Library (<http://yosemite.epa.gov/r1/videolen.nsf/MainForm>)

Annual Environmental Events

January: National Radon Month (www.epa.gov/radon/nram/index.html)

April: National Car Care Month (<http://carcare.org/NCCM>)

April 22nd – Earth Day (<http://earthday.gov/>)

May:

Bike/Walk to Work Week (www.bwanh.org)

Tour de Sol (visit Northeast Sustainable Energy Association, www.nesea.org)

Air Quality Awareness Week (mid-May) (www.epa.gov/airnow/airaware/airaware.html)

Asthma Awareness Month ()

Classroom Presentations Provided by DES

Air Quality Monitoring – Overview of the six criteria air pollutants that are monitored in NH in accordance with the Clean Air Act. Focus is on Ozone and Particle Pollution. (Grades: 5-12, Duration: 1 to 1.5 hours)

The Air Quality and Energy Connection – Explores relationship between energy and air quality. Focus is on how individuals can make every day behaviors to keep the air clean. (Grades: K-12, Duration: 1-1.5 hours)

Climate Change – Scientific evidence supports the theory that the climate is changing rapidly as a result of human activity. Explains why scientists are concerned for our future, and what governments, businesses, and individuals can do to try to reverse this change.
(Grades: 5-12 Duration: 1-1.5 hours)

Acid Rain – Air and water are intricately connected. Focus is on where air pollution comes from, how “acid rain” was discovered, and how our communities are being affected. (Grades: 4-12, Duration: 1-1.5 hours)

Ground-Level Ozone – “Smog” (ground-level ozone) is perhaps our most challenging air pollution problem. Focus is on the health effects of ground-level ozone, what the government is doing to reduce it, what you can do to protect your health, and how you can help reduce pollutants that form ozone. (Grades: 2-12, Duration: 1-1.5 hours)

Toxic Air Pollutants – Clean Air Act requires monitoring of six criteria air pollutants, however NH is concerned with over 800 toxic air pollutants.

Additional School and Extracurricular Activities

Clean Air Zones for Schools

(http://des.nh.gov/organization/divisions/air/tsb/tps/msp/irc/categories/education.htm#school_bus)

For More Information

DES Air Resources – Main Web Site: <http://des.nh.gov/organization/divisions/air/index.htm>

Kathy Brockett, Education and Outreach (603) 271-6284; kathleen.brockett@des.nh.gov

Barbara Fales, Education and Outreach (603) 271-1390; barbara.fales@des.nh.gov

New Hampshire's Educators – Doing Our Share For Clean Air!

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